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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,840	07/25/2001	Robin Arthur Ellis Carr	PU3565USW	7700
23347 7	7590 09/18/2002			
DAVID J LEVY, CORPORATE INTELLECTUAL PROPERTY GLAXOSMITHKLINE FIVE MOORE DR., PO BOX 13398			EXAMINER	
			BAKER, MAU	RIE GARCIA
RESEARCH TRIANGLE PARK, NC 2		27709-3398	ART UNIT	PAPER NUMBER
			1627	
			DATE MAILED: 09/18/2002	!

Please find below and/or attached an Office communication concerning this application or proceeding.

File

Office Action Summary

Application No. 09/806,840

Applica (s)

Carr et al

Examiner

Maurie G. Baker, Ph.D.

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Th MAILING DATE of this communication appears on the cover sheet with t	he correspondence address
Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>ONE</u> THE MAILING DATE OF THIS COMMUNICATION.	
 Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be time mailing date of this communication. 	nely filed after SIX (6) MONTHS from the
 If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, earned patent term adjustment. See 37 CFR 1.704(b). 	ne mailing date of this communication. D (35 U.S.C. § 133).
Status	
1) X Responsive to eemmunication(s) filed en Preliminary Amendments.	
2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, proceeds in accordance with the practice under Ex parte Quay 1835 C.D. 11; 45	
Disposition of Claims	
4) ☑ Claim(s) <u>1-47, 50, and 51</u>	is/are pending in the applica
4a) Of the above, claim(s)	is/are withdrawn from considera
5)	is/are allowed.
6)	is/are rejected.
7)	is/are objected to.
8) 🗓 Claims <u>1-47, 50, and 51</u> are s	subject to restriction and/or election requirem
Application Papers	
9) The specification is objected to by the Examiner.	
10) The drawing(s) filed on is/are a accepted or b)	objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).
11) The proposed drawing correction filed on is: a j ap	pproved b)⊡disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.	
12) The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120	
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 11	9(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐None of:	
1. Certified copies of the priority documents have been received.	
2. ☐ Certified copies of the priority documents have been received in Applicat	ion No
 3. Copies of the certified copies of the priority documents have been receiv application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not receiv 	_
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 1	
a) ☐ The translation of the foreign language provisional application has been reco	
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§	
Attachment(s)	
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-4	13) Paper No(s)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Ap	pplication (PTO-152)
3) Xinformation Disclosure Statement(s) (PTO-1449) Paper No(s)8 6) Other:	

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DETAILED ACTION

Please Note: In an effort to enhance communication with our customers and reduce processing time, Group 1627 is running a Fax Response Pilot for Written Restriction Requirements. A dedicated Fax machine is in place to receive your responses. The Fax number is 703-308-4315. A Fax cover sheet is attached to this Office Action for your convenience. We encourage your participation in this Pilot program. Thank you in advance for allowing us to enhance our customer service. Please limit the use of this dedicated Fax number to responses to Written Restrictions.

1. The First and Second Preliminary Amendments are noted. Claims 5, 6, 10, 12, 17, 18, 21, 24-29, 32, 35-37 and 42-44 were amended, claims 48 and 49 were cancelled and claims 50 and 51 were added in these amendments. Therefore, claims 1-47, 50 and 51 are currently under consideration.

Election/Restriction

2. It is noted that the instant claims are quite confusing in their recitation of various variable groups. For the purposes of this Restriction Requirement, it has been assumed that the group A (claim 7) is the same as the group G and that they are part of the broader group Fr. The relationships of some of the other variables are also unclear and this will be addressed further when the case is examined on the merits. Note that due to inconsistencies in the claims, further restriction and/or election may be necessary upon any amendment to the claims. Also note the additional *election of species requirement* set forth in paragraphs 9-13.

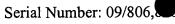
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3. Restriction is required under 35 U.S.C. 121 and 372. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

- 4. In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention from the following groups to which the claims must be restricted.
 - I. Claims 1, 6 and 21-31 (all in part) and claims 2-5 and 7-20, drawn to a "chemical construct" where the fragment Fr contains "a means for imparting a characteristic signature to the mass spectrum of the fragment".
 - II. Claims 1, 6 and 21-31 (all in part) and claims 32-41, drawn to a "chemical construct" where the fragment Fr contains "a chromophore C^u that facilitates analysis of the fragment Fr by ultraviolet, visible or fluorescence spectrophotometry".
 - III. Claim 42, drawn to a method of analyzing the constructs.
 - IV. Claims 43-46, drawn to an "intermediate construct".
 - V. Claims 46 and 47, drawn to a method of analysis of a solid phase construct.
 - VI. Claim 50 and 51, drawn to a method of identifying a pharmaceutically useful substrate.
- 5. The inventions listed as Groups I VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the reasons that follow.

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- 6. The technical feature that links all of the claims is the claimed "chemical construct". The groups lack unity because the claimed "chemical constructs" are *known* in the art as disclosed by Carrasco et al (Tet. Lett. 1997; on PTO-1449).
- 7. Carrasco et al disclose "resin-bound constructs" having a linker with two different cleavage sites attached thereto. See, for example, Figure 1 of the reference. The constructs of Carrasco et al contain a "desired organic substrate" reading on R and an "ionization sequence" (see Figure 1, Scheme 1 and Abstract). The "derivatized resin" of Carrasco et al incorporates a "dual linker strategy" where the "combination of the photocleavable linker and the ionization tag enables direct analysis of the beads by MALDI-MS" (reading on the claimed Fr group comprising a "sensitising group G").
- 8. Also, each of the products of Groups I, II and IV have a different chemical structure and their modes of action and chemical reactivity would be different. Thus, they each represent separate and distinct products (having different inventive concepts). They differ in respect to their properties, the synthetic methodology for making them and/or their use. The methods of Groups III, V and VI also represent different inventive concepts as they represent different methods, with different steps, different reagents and/or different end results.
- 9. This application contains claims directed to more than one species of the generic invention for <u>all of Groups I VI</u>. These species are deemed to lack unity of invention



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because they are not so linked as to form a single general inventive concept under PCT Rule 13.1 (see below).

10. If applicant elects the invention of either of **Groups I or II**, applicant is required to elect from the following patentably distinct species.

Type of "chemical construct"

Applicant is required to elect, for purposes of search, a single, specific structure of the claimed "chemical construct". This structure should have all variables defined down to the level of atoms and bonds, i.e. be completely defined as a single structure. The claims readable on the elected species should also be indicated (see paragraph 14 below).

11. If applicant elects the invention of **Group IV**, applicant is required to elect from the following patentably distinct species.

Type of "intermediate construct"

Applicant is required to elect, for purposes of search, a single, specific structure of the claimed "intermediate construct". This structure should have all variables defined down to the level of atoms and bonds, i.e. be completely defined as a single structure. The claims readable on the elected species should also be indicated (see paragraph 14 below).

12. If applicant elects the invention of any of **Groups III**, **V** or **VI**, applicant is required to elect from the following patentably distinct species.

Type of "chemical construct" used in the method

Applicant is required to elect, for purposes of search, a single, specific structure of the "chemical construct" that is used in the claimed method. This structure should have all variables defined down to the level of atoms and bonds, i.e. be completely defined as a single structure. The claims readable on the elected species should also be indicated (see paragraph 14 below).

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- 13. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons. PCT Rule 13.2 states that unity of invention shall be fulfilled when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. It further defines "special technical feature" as "those technical features that define a contribution which each of the claimed inventions, claimed as a whole, makes over the prior art". As the claimed "chemical constructs" are known in the art (see paragraphs 6-7 above), election under these rules is proper and required.
- 14. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also *identify the claims readable on the elected species*, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.
- 15. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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- 16. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143). Because the above restriction/election requirement is complex, a telephone call to applicants to request an oral election was not made. See MPEP § 812.01.
- 17. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 18. Applicant is also reminded that a 1 month (not less than 30 days) shortened statutory period will be set for response when a written requirement is made without an action on the merits. This period may be extended under the provisions of 37 CFR 1.136(a). Such action will not be an "action on the merits" for purposes of the second action final program, see MPEP 809.02(a).
- 19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maurie Garcia Baker, Ph.D. whose telephone number is (703) 308-0065. The examiner can normally be reached on Monday-Thursday from 9:00 to 6:30 and alternate Fridays.

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20. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane, can be reached on (703) 308-4537. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4242. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Maurie Garcia Baker, Ph.D. September 6, 2002

MAURIE GARCIA BAKER, Ph.D. PATENT EXAMINER